

IN THE SPECIFICATION

Please replace the paragraph bridging pages 3 – 4 of the specification with the following paragraph:

Controller module 28 includes a network controller 42 coupled through a media connector 44 to network line 14. Network controller 42, is preferably coupled to a non-volatile memory such as an EEPROM 46 and electrically programmable memory 48. EEPROM 46 holds static configurations of network controller 42. Flash Ram 48 allows network controller 28 to operate independently of control circuit 30. Network line 14 is typically a physical network medium such as a CAT5 or fiber cable that handles 10 or 100 or 1000 Base TX signals. Network controller module 42 is preferably an Ethernet network controller with an integrated physical interface. Network controller module 42 are known in the art, but the network controller in accordance with the one embodiment, includes ~~addition~~ additional features described in blocks 120, 124 and 126 that will be discussed in more detail later in connection with Figure 4.

Please replace the third full paragraph on page 5 of the specification with the following paragraph:

Controller 42 than responds to the transferred information by assembling the complete network packet information 53 and loading the information 53 into FIFO 51 to transmit onto the network 14. The assembled packet includes the header 54 at the location in internal cache 86 indicated by tag \times 82, e.g. tag 86x, followed by header 56 and data 58. Controller 42 only needs to DMA the information containing volatile (i.e., uncached) data and saves DMA operations of every cached header that it inserts.